

STATE OF ARIZONA

DEPARTMENT OF TRANSPORTATION PROCUREMENT



ELECTRONIC REQUEST FOR QUOTES

ADOT SOLICITATION REFERENCE NUMBER: T07-49-00015

Commodity Code: 0918- 0012, 0096; 0924-0019

Description: SPR 637 Cost/Benefit Analysis of Electronic License Plates

DUE DATE: October 31, 2006 at 5:00 P.M. MST

DATE POSTED: September 22, 2006

PRE-BID CONFERENCE: Not Applicable

Submittal Location: Arizona Department of Transportation

Procurement Group

1739 W. Jackson Street, Suite A MD 100P

Phoenix, Arizona 85007-3276

REPLY TO: FAX: (602) 712-8647

Responsible Contract Officer: Karie Ingles, CPPB Phone: (602) 712-8505

E-mail kingles@azdot.gov

TOTAL AGGREGATE AMOUNT FOR THIS CONTRACT WILL NOT EXCEED \$50,000.00. PROCUREMENTS LESS THAN \$50,000.00 ARE RESTRICTED TO SMALL BUSINESSES. A SMALL BUSINESS IS ONE THAT, INCLUDING ITS AFFILIATES, IS INDEPENDENTLY OWNED AND OPERATED, IS NOT DOMINANT IN THE TYPE OF BUSINESS IT CONDUCTS, AND WHICH EMPLOYS FEWER THAN 100 FULL TIME EMPLOYEES OR WHICH HAS GROSS RECEIPTS OF LESS THAN \$4 MILLION IN ITS LAST FISCAL YEAR.

"An Equal Employment Opportunity Agency"

The Arizona Department of Transportation is committed to the principles of Equal Employment Opportunity. To ensure dissemination of the Equal Opportunity program throughout all levels of the department, the ADOT Civil Rights Deputy Administrator serves as the Equal Opportunity Administrator for the Arizona Department of Transportation.

TABLE OF CONTENTS	PAGE
Title Page	1
Section 1.0, Statement of Need	2
Section 2.0, Uniform Terms and Conditions	4
Section 3.0, Special Terms and Conditions	4
Section 4.0, Uniform Instructions to Offerors	6
Section 5.0, Special Offer Submittal Instructions	6
Attachment 1 – Offer and Contract Award	8
Attachment 2 – Price Sheet	9
Attachment 3 – Offeror's References	10
Attachment 4 – State of Arizona Substitute W-9 Form	11
Exhibit A – Interview Outline	12

1.0 Statement of Need

The Arizona Department of Transportation (ADOT), Arizona Transportation Research Center (ATRC), (herein referred to as the Department) has a need for a firm or individual (hereinafter referred to as Contractor) to provide a report that can be used to evaluate what would it cost to implement an electronic license plate and whether the expected benefits would exceed this cost.

1.1 <u>Problem Description</u>

Electronic Plates (E-Plates) combine visual identification (i.e. alpha numeric plate format), along with an electronic verification system (electronic sensors imbedded in plate or plate mounting material.) Each plate has a unique identifier, not unlike the validation tab system.

The technology allows for a variety of uses: management of traffic flow (Britain has used it to stagger speed limits based on traffic congestion); road safety - traffic incident management; travel history - insurance company ability to monitor miles traveled, speed limits, etc.; registration compliance (tracking movement of vehicles currently registered or not).

The E-Plate registers on sensors mounted on rigid road readers or in mobile units. Enforcement of traffic laws, the tracking of criminals, collection of revenues, and management of traffic congestion could all be improved if vehicles had electronic license plates. An electronic license plate would enable the use of more sophisticated technologies to track and manage these objectives.

1.2 <u>Project Objectives</u>

- 1. Conduct a thorough evaluation of the advantages and disadvantages of electronic license plates.
- 2. Estimate the required cost of implementing electronic license plates in Arizona and compare these costs to expected benefits.

1.3 Work Plan

- 1.3.1 The following work tasks are intended to provide a framework for conducting the research and are considered to be the minimum. Projects typically are completed within a one to two year period:
- 1.3.2 <u>Task 1</u>: The Contractor shall present an outline of a work plan. Intermediate deliverables shall be identified in the work plan and any progress payments associated with these deliverables shall be specified. The Technical Advisory Committee (TAC) will review the scope of work and work plan. At this time, any revisions needed shall be made. **Deliverable**: A work plan acceptable to the TAC.
- 1.3.3 <u>Task 2</u> Review the literature (including any studies done by other state DOTs) on electronic license plates. **Deliverable**: Document the findings in a manner that is acceptable to the TAC and which shall be suitable for inclusion in the final report.
- 1.3.4 <u>Task 3</u>: Estimate an implementation cost for adopting an electronic license plate system of varying levels of sophistication and scope in Arizona. **Deliverable**: Document the findings in a manner that is acceptable to the TAC and which shall be suitable for inclusion in the final report.
- 1.3.5 <u>Task 4</u>: Estimate the various potential benefits and their dollar magnitude. **Deliverable**: Document the findings in a manner that is acceptable to the TAC and which shall be suitable for inclusion in the final report.
- 1.3.6 Task 5: Calculate a cost/benefit analysis for adopting an electronic license plate system of varying levels of sophistication and scope in Arizona. **Deliverable**: Document the findings in a manner that is acceptable to the TAC and which shall be suitable for inclusion in the final report.

- 1.3.7 Task 6: Contractor shall submit a Project Final Report and a four-page Research Note to ATRC. The Final Report shall contain the data and explanatory narrative sufficient to document the Project goals, scope, methods used in the research, activities and issues, results, recommendations and all other requirements The Final Report shall include suggestions on how to implement specified in this Solicitation. recommendations made. Electronic copies of the Final Report shall be provided in mutually agreed upon formats. The Final Report shall conform to the version of the ATRC document, Guidelines for Preparing ATRC Research Reports, which is in effect at the time this Contract is executed. At Contractor's request ATRC will provide Contractor a printed or electronic copy of the Guidelines or the document may be found on the Internet at: http://www.azdot.gov/TPD/ATRC/Publications/guidelines.asp The four-page Research Note serves as an executive summary for the project. It must be written in a concise manner with an emphasis on the research need, project goals, and key results, conclusions and recommendations. provide format samples and guidelines for this document, which will be both printed and posted on the Internet. Contractor is responsible for correction of deficiencies in the Final Report that are identified by the Project's Technical Advisory Committee, the Federal Highway Administration or ATRC. The Project is not considered complete until Report deficiencies are corrected. Contractor should include report preparation and revisions as part of the work scope for this Solicitation. Deliverable: A final report that is acceptable to the TAC, Federal Highway Administration (FHWA) and ATRC.
- 1.3.8 Task 7: Contractor shall provide a brief presentation to the Research Council or another audience designated by the TAC. This presentation shall include such visual aids (Microsoft PowerPoint is preferred) as necessary or useful in portraying the information content of the research. Copies of the final report and any handouts of other information shall be distributed to members of the Research Council at this presentation.

 Deliverable: A final oral presentation that is acceptable to the TAC.

1.4 <u>Project Researcher Responsibilities</u>

- 1.4.1 Conduct the research in accordance with ATRC guidelines. These guidelines can be found at http://www.azdot.gov/TPD/ATRC/research/Guidelines.asp. Copies of previously published ATRC reports illustrating the type of final product required can be found at http://www.azdot.gov/TPD/ATRC/Publications/project_reports/index.asp.
- 1.4.2 Respect the confidentiality of the Department's data—using any confidential information solely for the purposes of this research project. No data or reports shall be released to entities not directly involved with the Project without the express prior written approval of ADOT. All media contacts prior to the publication of the final report for the Project, and directly related to the Project, shall be coordinated by ADOT.
- 1.4.3 Submit periodic progress reports that summarize work to date and include a copy of appropriate deliverables (for example, bibliographies, research notes, partially completed text, tables or graphics). Frequency of progress reports shall be determined and mutually agreed upon at the time the work plan is approved.
- 1.4.4 Submit invoices for payment purposes. These invoices shall accompany the periodic progress reports and shall be for amounts commensurate with the deliverables of the project. The Project Manager shall provide sample format for invoices.

1.5 TAC Responsibilities

- 1.5.1 Provide guidance to the project by making timely responses to any relevant questions posed by the Project Researcher.
- 1.5.2 Assist in obtaining access to any official data, records, or information needed for the research.
- 1.5.3 Review progress reports in a timely manner to provide feedback and ensure that the project stays on course.
- 1.5.4 Review and approve (if satisfactory) the final report.

- 1.5.5 Provide reasonable assistance in the oral presentation to the Research Council or other designated audience.
- 1.5.6 Make the best effort to implement recommendations that would be beneficial to the Department or other government agencies and/or the traveling public.

1.6 <u>Project Manager Responsibilities</u>

The Project Manager shall provide general direction as necessary and be responsible for all decisions pertaining to the work on this project, including processing invoices and reporting progress to TAC.

2.0 <u>UNIFORM TERMS AND CONDITIONS</u>

Incorporated by reference. To obtain a copy of the Uniform Terms and Conditions in full text, you can log on to http://www.azeps.az.gov/PoliciesDocuments/index.htm or contact Karie Ingles at (602) 712-8505.

SPECIAL TERMS AND CONDITIONS

3.1 <u>Term</u>

3.0

- 3.1.1 The term of any resultant contract shall commence upon contract execution and shall continue for two (2) years unless terminated, cancelled or extended as otherwise provided herein.
- 3.1.2 The Department reserves the right to unilaterally extend the period of any resultant contract for thirty-one (31) days beyond the stated expiration date.
- In addition, by mutual written agreement, any resultant contract may be extended for supplemental periods up to a maximum of thirty-six (36) months or subject to the budget limitation of \$49,999.00.

3.2 <u>Method of Payment & Funding Limitation</u>

- 3.2.1 All project invoices are paid at 90% of the billed amount. The remaining 10% is withheld until final completion of the project. Payment is made based upon the deliverables identified and completed. The Department reserves the right to withhold payment in the event that adequate documentation of satisfactory progress toward completion of the project has not been received. The Project Manager shall be the judge of the adequacy of documentation and whether progress on the project is satisfactory. The maximum budget for this project is \$15,000.
- 3.2.2 The Contractor shall submit invoices for services rendered to the address as follows:
- 3.2.2.1 Arizona Department of Transportation,

Transportation Research Center Department (Mail Drop 075R)

2739 E. Washington Street Phoenix, AZ 85034-1422 Attention: Mr. John Semmens

3.3 Changes

The Department reserves the right to revise the delivery schedule and make other changes within the general Scope of Work as may be deemed necessary to best serve the interest of the Department. All changes shall be documented by formal amendments to the contract in accordance with A.R.S. 41-2503 (8).

3.4 Accuracy of Work

The Contractor shall be responsible for the accuracy of the work and shall promptly make all necessary revisions or corrections resulting from errors and omissions on the part of the Contractor without additional compensation. Acceptance of the work by the State will not relieve the Contractor of the responsibility for subsequent correction of any such errors and clarification of any ambiguities.

3.5 Review of Contractor's Work

Work performed by the Contractor shall be subject to periodic reviews. The Department reserves the right to make such reviews and pass upon the acceptability of Contractor's work.

3.6 <u>Cancellation for Possession of Weapons on ADOT Property</u>

- 3.6.1 This contract may be cancelled if contractor or any subcontractors or others in the employ or under the supervision of the contractor or subcontractors is found to be in possession of weapons.
- Possession of weapons (firearms, explosive device, knife or blade of more than three inches, or any other instrument designed for lethal or disabling use) is prohibited on ADOT property pursuant to ADOT Policy, PER 6.04, "Weapons in the Workplace." Such property includes ADOT owned or leased office building, yards, parking lots, construction sites or state owned vehicles.
- Further, **f** the contractor or any subcontractors or others in the employ or under the supervision of the contractors or subcontractors are asked by an ADOT official to leave the ADOT property, they are advised that failure to comply with such a request shall result in cancellation of the contract and anyone who refuses, whether armed or not, is subject to prosecution under A.R.S. § 13-1502, "Criminal trespass in the third degree; classification."

3.7 Offshore Performance of Work Prohibited

Due to security and identity protection concerns, direct services under this contract shall be performed within the borders of the United States. Any services that are described in the specifications or scope of work that directly serve the State of Arizona or its clients and may involve access to secure or sensitive data or personal client data or development or modification of software for the State shall be performed within the borders of the United States. Unless specifically stated otherwise in the specifications, this definition does not apply to indirect or "overhead" services, redundant back-up services or services that are incidental to the performance of the contract. This provision applies to work performed by subcontractors at all tiers.

3.8 Federal Immigration and Nationality Act

The contractor shall comply with all federal, state and local immigration laws and regulations relating to the immigration status of their employees during the term of the contract. Further, the contractor shall flow down this requirement to all subcontractors utilized during the term of the contract. The State shall retain the right to perform random audits of contractor and subcontractor records or to inspect papers of any employee thereof to ensure compliance. Should the State determine that the contractor and/or any subcontractors be found noncompliant, the State may pursue all remedies allowed by law, including, but not limited to; suspension of work, termination of the contract for default and suspension and/or debarment of the contractor.

3.9 <u>Notices/Correspondence Requirements</u>

3.9.1 All correspondence/notices for this contract shall be delivered in person or sent by mail addressed as follows:

3.9.1.1 Arizona Department of Transportation

Procurement Group

1739 W. Jackson St., Ste. A, MD100P

Phoenix, Arizona 85007-3276 Attention: Karie Ingles

4.0 <u>UNIFORM INSTRUCTIONS TO OFFERORS</u>

Incorporated by reference. To obtain a copy of the Uniform Instructions to Offerors in full text, you can log on to http://www.azeps.az.gov/PoliciesDocuments/index.htm or contact Karie Ingles at (602) 712-8505.

5.0 SPECIAL OFFER SUBMITTAL INSTRUCTIONS

5.1 Complete and return all required information to the location indicated on the solicitation, page one (1) by the time indicated. **Responses may be faxed to: (602) 712-8647, Attention: Karie Ingles.** Responses must be in writing and signed.

5.2 **Required Information**

5.2.1 The following shall be completed and submitted concurrent with and as part of the Offer:

Attachment 1 - Offer and Contract Award

Attachment 2 - Price Schedule

Attachment 3 - Offeror's References

Attachment 4 - State of Arizona Substitute W-9

- 5.2.2 Submit cover letter and resume(s) of proposed personnel.
- 5.2.3 Submit an example of the proposed personnel's work product or provide a website where sample can be obtained.
- 5.2.4 Submit transcripts or qualifications of the organization.

5.3 OFFER EVALUATION AND SELECTION

5.3.1 The table below indicates the items and the relative order of importance that shall be given to each factor in the selection of the firm or individual to undertake the research project. The offeror shall submit items 2 through 6 in written form. The project manager shall evaluate the offers and make a recommendation for award based upon the following evaluation criteria. Those offers determined to be reasonably susceptible of being selected for award shall be invited to interview. If circumstances prevent full execution of the contract, the offeror submitting the next ranked offer will be called. An award will be made to the responsible offeror whose offer is determined to be the most advantageous to the State by the Procurement Officer.

1. Interview	The Project Manager will interview the offeror in person or by telephone. The interview questions to be asked are found in Exhibit A of this solicitation. Any other questions that may be asked are strictly limited to clarification, as defined below in A.A.C. R2-7-C313, of the offer submitted and to establish that the offeror is responsible, as defined below in A.R.S. 41-2531 (14), to undertake this project. No revisions to the offer or solicitation will take place.
	<u>Definitions:</u>
	A.A.C. R2-7-C313 – The purpose for clarifications is to provide for a greater mutual understanding of the offer. Clarifications are not negotiations and material changes to the request for proposal or offer shall not be made by clarification.
	A.R.S. 41-2531 (14) – "Responsible bidder or offeror" means a person who has the capability to perform
	the contract requirements and the integrity and reliability, which will assure good faith performance.
2. Sample of Previous work	Provide a sample of offeror's best work on a research project. If possible, this sample should reflect work on a related topic or demonstrate the type of skills that would be useful on this project.
3. Cover letter and resume	Submit a one-page cover letter briefly describing why offeror should be selected for the job and attach a brief résumé listing educational and job experiences.
4. References	Provide three (3) references (including telephone numbers and e-mail addresses) who will vouch for offeror's ability and attitude. References are required to complete Attachment 4, References.
5. Transcripts OR Qualifications of the Organization	Provide an unofficial copy of college transcripts, OR describe offeror's organizational capabilities, background qualifications and experience. Include internal methods proposed for completing projects on time and person responsible for schedule.
6. Price	Utilizing the Price Sheet, specify a "Firm Fixed Price" for completion of the project. This shall be supported by an hourly rate combined with an estimation of how many hours would be required to complete the project.

ATTACHMENT 1 OFFER AND CONTRACT AWARD



ARIZONA DEPARTMENT OF TRANSPORTATION

Procurement Group 1739 West Jackson Street, Suite A, Mail Drop 100P Phoenix, Arizona 85007-3276 Phone: (602) 712-7211



SOLICITATION NO. T07-49-00015

Submit this form with an original signature to the State.

			OFFER	
TO THE STATE OF A	ARIZONA:			
-		•	bliance with all terms, conditions, specific nature also acknowledges receipt of all p	
Federal Employer Id			For clarification of this offer	, contact:
			Printed	Name
Offeror's	(Company) Name		Email Ad	dress
	Address		Company Ema	il Address/Website
City	State	Zip	Signature of Person Authorize	d to Sign Offer
Phone			Printed Name	Date
Facsimile				Title
		SMALL BU	SINESS CERTIFICATION	
small business. A which is not domin annual receipts of	small business mear nant in its field, and less than four million	ns a concern, which employ a dollars in its	signing below I certify that the bidding including its affiliates, which is indepers fewer than one hundred full-time entals last fiscal year (A.R.S. §41-1001). Proestricted to small businesses in accordance.	ndently owned and operated, nployees or which had gross curements estimated to cost
		Signatu	ire of Person Authorized to Certify Statu	is as Small Rusiness

ACCEPTANCE OF OFFER AND CONTRACT AWARD (FOR STATE OF ARIZONA USE ONLY)

Your bid is hereby accepted.	
The contractor is now bound to perform based upon the amendments, etc., and the contractor's offer as accepted by the	ne solicitation, including all terms, conditions, specifications, e state.
This contract shall henceforth be referred to as Contract No.	.
SPR 637 - Cost/Benefit Analy	sis of Electronic License Plates
The contractor is hereby cautioned not to commence any billable contract until contractor receives a purchase order.	ole work or provide any material, service or construction under this
9	State of Arizona
A	Awarded this day of 2006
_	
ŀ	Karie Ingles, CPPB
As	Procurement Officer and not personally_

ATTACHMENT 2 PRICE SHEET

SOLICITATION NO. T07-49-00015

COMPLETE	THIS	FORM	IN	ACCORDANCE	WITH	SOLICITATION	REQUIREMENTS	AND	SUBMITTED	WITH
OFFER:										

FIRM FIXED PRICE for research project	\$	Total
Estimated number of hours to complete project		Hours
Hourly Rate	\$	/hour
Company Name		
% Arizona Sales Tax, State & City		
Do not include sales tax in the above figures. Tax will not be	e used in the evaluati	on of bids.
IF PAYMENT IS MADE WITHIN DAYS AFTER RECEIPT OF GOODS OR SER	VICES, THE ABOVE QUOTED	PRICE CAN BE DISCOUNTED

ATTACHMENT 3 OFFEROR'S REFERENCES

SOLICITATION NO. T07-49-00015

Provide a copy of this form to <u>each</u> of three (3) references for completion and inclusion with offer. These references will be checked, please make sure all information is accurate and current.

Off	feror's Name
	Reference Name
	Reference Telephone Number
	Reference Facsimile Number
	Reference E-mail Address
	What is the nature of your relationship with the referenced individual?
	Current or former student
	Current or former employee
	Other (please elaborate)
1.	On a scale of 1 to 10, with 10 being the best, how would you rate this person / firm in terms of their ability to do each of the following: (Explain as necessary.)
	Complete work on schedule
	Take direction
	Prepare a quality written report
	Make a coherent oral presentation
2.	Attitude:
	Excellent: always gives a good effort. Independently achieves good performance.
	Good: usually gives a good effort. Requires some coaching/motivation.
	Fair: gets work done but requires frequent coaching/motivation.
	Poor: unreliable. Does not work to potential.
3.	Is there anything else you can add that would help us evaluate this person's/firm's suitability for the job's

ATTACHMENT 4

DO NOT SEND TO IRS

STATE OF ARIZONA

DO NOT SEND TO IRS

or Type Information	S	SUBSTITUTE	W-9 & VENDO	OR AUTH	IORIZA	TION FO	RM			MUST Print Information
<u> </u>	tification Number			• TIN Type	(EIN)		dentification Nur y Number (SSN)	mber • s	State of Ar	rizona HRIS EIN cona Employees ONLY
● Legal Name Must match TIN above										
• Entity Type Sele	ect one of the following F providing health care, n	nedical or legal s	services (5A)		fo F	ollowing	y Business Business (01)	Indicator	Sele	ect one of the
Corporation (prov Partnership, LLP Individual/Sole P The US or any or A state, a posses Tax-exempt orga An international or State of Arizona	iding health care, medica (5T) roprietor (6I) rits political subdivisions sion of the US, or any of the nization under IRC §501 rganization or any of its a	l or legal service or instrumentaliti heir political sub (5C) gencies or instru	es) (5M) des (2G) divisions or instrunt mentalities (5U)			Small E Small E Small E Small E Small E Small, Small, W Small, Small, W Small, Small, W	Business — Africa Business — Asia Business — Hispa Business — Nativa Business — Othe Woman Owned Buwoman Owned Woman Owned Buwoman Owned Buwom	n (24) anic (25) ve Americ er Minority Business siness - Afi Business Business siness - N) an (27) (05) s (06) rican Ame s – Asiar ative Ame	erican (29) n (30) anic (31) erican (33)
DBA\Branch\Location							n Owned Busin n Owned Busin			erican (17)
Address						☐ Womar ☐ Womar ☐ Womar	n Owned Busin n Owned Busin n Owned Busin n Owned Busin	ess – Asia ess – Hisp ess – Nat	an (18) panic (<i>*</i> ive Ame	19) rican (21)
Address continued						☐ Minority Owned Business – African American (17) ☐ Minority Owned Business – Asian (32)				
City		State	Zip code			Minorit Minorit Minorit Non-Pr	y Owned Busin y Owned Busin y Owned Busin ofit, IRC §501© nall, Non-Minority	ess – His ess – Nat ess – Oth (88)	panic (ive Ame ier Minoi	74) erican (15) rity (02)
Remit to Address	☐ Same as	Main					nformation			
DBA\Branch\Location						Name				
Address					F	Phone #				EXT
Address continued					F	ax				
City		State	Zip code		E	Email				
Certification					•					
Under Penalties of perjung 1. The number shown on the 2. I am not subject to back am subject to backup with AND 3. I am a U.S. person (incomplete in the secured property), cancellar equired to sign the Certification instructions.	his form is my correct tax kup withholding because holding as a result of a fa- uding U.S. resident alien; You must cross out item and dividends on your ta tion of debt, contribution cation, but you must pro-	(a) I am exem ailure to report a 2 above if you ax return. For re s to an individua vide your correc	pt from backup wi all interest or divide have been notifie eal estate transact al retirement arrand t TIN.	thholding, of ends, or (c) d by the IR ions, item 2 gement (IR.	sthe IRS S that you does not A), and g	nve not bee has notified bu are curre t apply. For enerally, pa	n notified by the I me that I am no ently subject to be mortgage interestayments other that	longer sub ackup withlet of paid, acq n interest a	nolding be uisition of and divide	ecause you have r abandonment of ends, you are not
Signature			Tit	le				Curren	t Date	
STATE OF ARIZONA	AGENCY USE ONL	Υ				VEN	NDOR: DO NO	T WRITI	E BELO	W THIS LINE
AGY Ag	gency Authorization			Print	Name				Dat e	

ATTACHMENT 4

STATE OF ARIZONA GAO USE ONLY VENDOR & STATE AGENCY: DO NOT WRITE BELOW THIS							
☐ IRS TIN Matching	☐ Commission	Corp	poration	Other		☐ Other	
Vendor Number		MC	Processed by			Date Processed	
040 144 0 D : 100/45/05							

EXHIBIT A INTERVIEW OUTLINE

SOLICITATION NO. T07-49-00015

Name
Project
Date
Why do you want to work on this project?
What do you know about electronic license plates?
How will you proceed with the research on this project?
What distinguishes you from other candidates for this job?
What is the most important skill or attribute you will bring to this job?
Are there any particular special circumstances or requests (i.e., work schedule, timeframe, task order, etc. you would like to make regarding this project?
Any additional comments you would like to make or items you would like to show that would help ADOT evaluate your capabilities for this job?